

## § 431.95

## 10 CFR Ch. II (1–1–05 Edition)

below 240,000 Btu per hour (cooling capacity), and that are industrial equipment.

*Packaged terminal air conditioner* means a wall sleeve and a separate unencased combination of heating and cooling assemblies specified by the builder and intended for mounting through the wall, and that is industrial equipment. It includes a prime source of refrigeration, separable outdoor louvers, forced ventilation, and heating availability by builder's choice of hot water, steam, or electricity.

*Packaged terminal heat pump* means a packaged terminal air conditioner that utilizes reverse cycle refrigeration as its prime heat source, that has a supplementary heat source available, with the choice of hot water, steam, or electric resistant heat, and that is industrial equipment.

*Seasonal energy efficiency ratio or SEER* means the total cooling output of a central air conditioner or central air-conditioning heat pump, expressed in Btu's, during its normal annual usage period for cooling and divided by the total electric power input, expressed in watt-hours, during the same period.

*Single package unit* means any central air conditioner or central air-conditioning heat pump in which all the major assemblies are enclosed in one cabinet.

*Small commercial package air-conditioning and heating equipment* means air-cooled, water-cooled, evaporatively cooled, or water-source (not including ground water-source) electrically operated, unitary central air conditioners and central air-conditioning heat pumps for commercial application which are rated below 135,000 Btu per hour (cooling capacity), and which are industrial equipment.

*Split system* means any central air conditioner or central air conditioning heat pump in which one or more of the major assemblies are separate from the others.

### TEST PROCEDURES

#### § 431.95 Materials incorporated by reference.

(a) The Department incorporates by reference the following test procedures into subpart F of part 431. The Director

of the Federal Register has approved the material listed in paragraph (b) of this section for incorporation by reference in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. Any subsequent amendment to this material by the standard-setting organization will not affect the Department test procedures unless and until the Department amends its test procedures. The Department incorporates the material as it exists on the date of the approval and a notice of any change in the material will be published in the FEDERAL REGISTER.

(b) *List of test procedures incorporated by reference.* (1) Air-Conditioning and Refrigeration Institute (ARI) Standard 210/240–2003 published in 2003, "Unitary Air-Conditioning and Air-Source Heat Pump Equipment," IBR approved for § 431.96.

(2) ARI Standard 340/360–2000 published in 2001, "Commercial and Industrial Unitary Air-Conditioning and Heat Pump Equipment," IBR approved for § 431.96.

(3) International Organization for Standardization (ISO) International Standard ISO 13256–1 published in 1998, "Water-source heat pumps—Testing and rating for performance—Part 1: Water-to-air and brine-to-air heat pumps," IBR approved for § 431.96.

(4) ARI Standard 310/380–2004 (CSA–C744–04) published in 2004, "Standard for Packaged Terminal Air-Conditioners and Heat Pumps," IBR approved for § 431.96.

(c) *Availability of references.* (1) *Inspection of test procedures.* You may inspect the test procedures incorporated by reference at:

(i) National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202–741–6030, or go to: [http://www.archives.gov/federal\\_register/code\\_of\\_federal\\_regulations/ibr\\_locations.html](http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html).

(ii) U.S. Department of Energy, Office of Energy Efficiency and Renewable Energy, Hearings and Dockets, "Test Procedures and Efficiency Standards for Commercial Air Conditioners and Heat Pumps," Docket No. EE–RM/TP–99–460, 1000 Independence Avenue, SW., Washington, DC 20585.

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(2) *Obtaining copies of test procedures.* You may obtain a copy of the ARI standards from the Air-Conditioning and Refrigeration Institute, 4301 North Fairfax Drive, Suite 425, Arlington, VA 22203, <http://www.ari.org/>. You can purchase a copy of the ISO Standard 13256-1 from the International Organization for Standardization, Case Postale 56, CH-1211, Geneva 20, Switzerland. <http://www.iso.ch/> or from the American National Standards Institute, 25 West 43rd Street, New York, New York 10036.

### § 431.96 Uniform test method for the measurement of energy efficiency of small and large commercial package air conditioning and heating equipment, packaged terminal air conditioners, and packaged terminal heat pumps.

(a) *Scope.* This section contains test procedures you must follow if, pursu-

ant to EPCA, you are measuring the energy efficiency of any small or large commercial package air-conditioning and heating equipment, packaged terminal air conditioner or packaged terminal heat pump.

(b) *Testing and Calculations.* Determine the energy efficiency of each covered product by conducting the test procedure(s) listed in the rightmost column of Table 1 of this section or the two rightmost columns of Table 2 of this section, that apply to the energy efficiency descriptor for that product, category, and cooling capacity.

TABLE 1 TO § 431.96.—TEST PROCEDURES FOR CERTAIN SMALL COMMERCIAL PACKAGE AIR CONDITIONING AND HEATING EQUIPMENT (ALL WATER-SOURCE EQUIPMENT AND OTHER EQUIPMENT LESS THAN 65,000 BTU/H), FOR LARGE COMMERCIAL PACKAGE AIR CONDITIONING AND HEATING EQUIPMENT AND FOR PACKAGED TERMINAL AIR CONDITIONERS AND PACKAGED TERMINAL HEAT PUMPS

Product	Category	Cooling capacity	Energy efficiency descriptor	Use tests, conditions and procedures <sup>1</sup> in
Small Commercial Packaged Air Conditioning and Heating Equipment	Air Cooled, 3 Phase, AC and HP	<65,000 Btu/h .....	SEER .....	ARI Standard 210/240-2003
			HSPF .....	ARI Standard 210/240-2003
	Water Cooled and Evaporatively Cooled AC	<65,000 Btu/h .....	EER .....	ARI Standard 210/240-2003
	Water-Source HP .....	<135,000 Btu/h .....	EER .....	ISO Standard 13256-1 (1998)
			COP .....	ISO Standard 13256-1 (1998)
Large Commercial Packaged Air Conditioning and Heating Equipment	Air Cooled AC and HP	≥135,000 Btu/h and <240,000 Btu/h.	EER .....	ARI Standard 340/360-2000
			COP .....	ARI Standard 340/360-2000
	Water Cooled AC .....	≥135,000 Btu/h and <240,000 Btu/h.	EER .....	ARI Standard 340/360-2000
	Evaporatively Cooled AC.	≥135,000 Btu/h and <240,000 Btu/h.	EER .....	ARI Standard 340/360-2000
Packaged Terminal Air Conditioners and Heat Pumps	AC and HP .....	All .....	EER .....	ARI Standard 310/380-2004